



*Delaware Department Of Technology & Information*

# Green IT

## State-wide Awareness Campaign

**Jan 22, 2009 DELNUG meeting**

presenter: Charles Campbell-King [dti\\_green\\_it@state.de.us](mailto:dti_green_it@state.de.us)







*Delaware Department Of Technology & Information*

## Largest Budget Shortfall in State History



Unlike the federal government,  
Delaware, by law, *must* balance its  
budget every year.

today → 06/30/09: **\$100 million** shortfall

07/01/09 → 06/30/10: **\$600 million** shortfall  
(nearly 20% of our entire state budget)

– Governor Jack Markell  
01/21/09 Inauguration Address







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# How can you help?



As State employees, *we can and should* do our part by conserving energy & resources.



Reduce. Reuse. Recycle.

**Rethink.**







# Going Green = Cost Savings ??



While *Going Green*  
DOES NOT  
always equal cost  
savings, this is one  
opportunity where  
we can do both.







# What is Green IT?



"Green IT", brings environmental thinking to the world of information technology.

Consider how the environment may be affected by your IT-related decisions.







# Common Green IT Concepts



- Virtualization
- Recycling
- Power Management
- Reducing Print



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**Rethink.**







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# Green IT Awareness Campaign



## mission

...is to inform and unite everyone that receives a State of Delaware paycheck to make meaningful and lasting changes in our use of information technology (IT).







# Green IT Progress to Date



- Energy Consumption Reduced **14%**  
in DTI Dover (Wm Penn) Data Center
- DTI Paper Usage Reduced **10%**  
comparison from FY 07 to FY 08
- Virtualized **54** physical servers  
saves **\$92,000** annually on energy costs







# Energy Consumption Reduced 14%



- Adjusted temp in the Dover data center by two degrees, reducing HVAC costs
- Enabled PC Power Mgt on all DTI desktops/laptops through automatic scripts (shuts down PCs when not in use and uses less energy when not active)
- Replaced CRT monitors with LCD monitors
- Installed motion sensor light switches in common areas







# Paper Consumption Reduced 10%



- “Think Before You Print” campaign
- Configured printers for default double-side printing
- Identified & developed applications to further eliminate/reduce paper usage
- Located recycle bins conveniently around our buildings







# Physical Server Virtualization



- After the Virtualization of 54 physical servers, the physical boxes can be powered off, thus saving more than **\$92,000 annually** on energy costs.
- For the virtualization of 300 servers, the reduction in operating costs would be **\$1.2 Million**.
- Applications will continue to work as designed, the only change occurring is movement from physical hardware to virtualized servers.







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# Cell Phone Recycling Program



**Mail your old cell phone,  
charger & extra batteries to:**

NOTE : PERSONAL CELL PHONES FROM ANY VENDOR ARE ALSO ACCEPTED

**DTI Go Green  
801 Silver Lake Boulevard  
Dover, Delaware 19904  
SLC: D-410**



*Are you really ever going to  
reuse those old cell phones?*







# How Can You Help?



- Power Management Settings
- Reducing Print
  - Think Before You Print campaign
  - Set all printers capable to default double-print print



Reduce. Reuse. Recycle.

**Rethink.**







# Delaware Department Of Technology & Information

# dti.delaware.gov/greenit



Delaware's Department of Technology and Information - Green IT - Windows Internet Explorer

http://dti.delaware.gov/greenit/

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State of Delaware  
The Official Website of the First State

WINTER IN DOVER | PHOTO BY MIKE MARAFFIE

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Enabling Excellence In Delaware State Government

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## Green Information Technology (IT)

The DTI "Go Green - Get Green" initiative is an awareness campaign, first introduced to state employees, and now being shared with all interested Delawareans. Our mission is to promote cost-effective and environmentally responsible uses of information technology, both at home and at work.

If you would like to become a "green soldier", we invite you to join our [Green IT Army!](#)

**Recycle...** recycling is the reprocessing of an item into a new raw material for use in a new product. This includes monitors, computers, keyboards, printers, copiers, scanners, fax machines, digital cameras, video games, calculators, cell phones, and ink cartridges can all be candidates. We can tell you how!

**Reduce...** your carbon footprint (energy consumption of your electronic equipment for heat, light, power and refrigeration) as well as limiting the use of paper reports and printing on two sides of the paper. We can tell you how!

**Reuse...** is often confused with recycling, but they are really quite different. Reuse in the broadest sense means any activity that lengthens the life of an item. We can tell you how!

**Rethink...** by participating in our "Go Green - Get Green" initiative you will receive information to help you rethink your selection and use of information technology. We can tell you how!

For more information, contact us at [DTI\\_Green\\_IT@state.de.us](mailto:DTI_Green_IT@state.de.us)

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HIGHLIGHT  
Get Green!  
Are you really using your IT to work more efficiently?  
Recycle Old IT - Save the Planet!

GO GREEN  
GET GREEN





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HIGHLIGHT

*Get Serious!*  
  
Are you really ever going to reuse those old cell phones?  
**Recycle Old State Cell Phones**  
HopeLine Cell Phone Recycling

Green Information Technology (IT)

RESOURCES / LINKS

WORK

- [State of Delaware Partners in Technology Program](#)
- [Computer Power Management<sup>E</sup>](#) (for network administrators)
- [Electronic Product Environmental Assessment Tool \(EPEAT\)](#)
- [Fleet Link, State Employee Vanpool Program](#)
- [Green Living Tips for Work](#)
- [HP's Green IT Action Plan](#)
- [Save Paper by Enabling Duplex Printing for all Users<sup>E</sup>](#) (for network administrators)
- [Share Ideas on How to Reduce, Reuse, Recycle and Replace](#)

HOME

- [Delaware Department of Natural Resources and Environmental Control, Energy and Heritage](#)
- [Delaware Solid Waste Authority](#)







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# Join The Green Army Email List



## JOIN THE GREEN ARMY

Delaware's Department of Technology and Information invites you to join our "Go Green - Get Green" IT Special Forces army of volunteers. The Green Army will focus on reducing energy consumption, reducing waste, and creating a more environmentally friendly computing environment. You can and will make a difference by getting involved in this important initiative.

**Click on the links below to send an email to State of Delaware ListServer to subscribe/unsubscribe to the Green Army Lyris Email List.**

**Instructions:** Clicking on a link below will bring up your email client. Leave the message & subject blank, and just hit send. You will receive a confirmation email within a day.

- [Subscribe to the Green Army Email ListServe<sup>E</sup>](#)  
(State of Delaware Employees ONLY)
- [Unsubscribe from the Green Army Email ListServe<sup>E</sup>](#)  
(State of Delaware Employees ONLY)

NOTE: The links above (<sup>E</sup>) are accessible only to those that are on the State of Delaware Network (Extranet).

For more information, contact us at [DTI\\_Green\\_IT@state.de.us](mailto:DTI_Green_IT@state.de.us).







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# Share Your Success Stories



## **Gone Green?**

**Have a green success story you want to share? We want to hear!**

Send your email to [DTI\\_Green\\_IT@state.de.us](mailto:DTI_Green_IT@state.de.us).

**Include:**

- Name
- Phone Number
- Organization (agency/school district/entity)
- Green Accomplishment







# In Closing...



*"We face historic challenges in Delaware, but we also have an historic opportunity to chart a new course for our state toward a brighter future. It is not these challenges but how we meet them that will define us as a people. I believe that we can, and will, overcome and that our best days do indeed lie ahead."*

*- Governor Jack Markell  
Inauguration*







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**One person CAN make a difference...  
TAKE ACTION TODAY!**

"Never doubt that a small group of thoughtful, committed citizens can change the world. Indeed, it is the only thing that ever has."

- Margaret Mead



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